

Saivenkat Senthilkumar

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EDUCATION

Indian Institute of Science Education and Research, (IISER) Tirupati <i>Integrated BS/MS Program, CGPA- 8.8</i>	2020 – 2025 Andhra Pradesh
• INSPIRE Scholar: Scholarship awarded to those students with exceptional academic records	
Senior School Certificate <i>Central Board of Secondary Education (PCMB) 480/500 (96.0 %)</i>	June 2020 Chennai, Tamil Nadu
Secondary School Certificate <i>Central Board of Secondary Education 492/500 (98.4 %)</i>	May 2018 Chennai, Tamil Nadu

EXPERIENCE

Quantum Computing: Introduction to Algorithms and Implementations using Qiskit <i>Instructor Chetan Wagela</i>	May-July 2022 Qkrishi/IISERT
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- Acquired proficiency in the basics of Quantum Mechanics in order to develop algorithms and take measurements using IBM's Cloud Quantum Computing service via **Qiskit**
- Learnt and Implemented various algorithms such as **Deutsch-Jozsa** algorithm and **Grover's** algorithms as well as understood their complexity classes
- Submitted a final project report titled "**Benchmarking various algorithms against Xanadu and IBM Quantum Computers**" in which the Quantum Computers developed by IBM and Xanadu were compared and analysed.

Internship on Data Science and Machine Learning <i>Gilbert Research Center</i>	May 2022-Present Chennai, Tamil Nadu, India
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- Undergoing a two month training program on Data Science and Machine learning for Python which includes Industry level projects.
- Awarded incentives and part-time job opportunities based on performance during internship.

Reading Project on "Introduction to Modern Analysis and Topology" by G.F. Simmons <i>Under Guidance of Dr. B Subhash</i>	Nov 2021 IISER Tirupati
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- Systematically dwelling into the basics of topology such as open/closed sets, metric spaces, compactness, etc through weekly meetings and updates.

14th Annual Asian Regional Space Settlement Design Competition (AARSSDC) <i>Atlantis Research</i>	Jan 2018 Gurugram, Haryana, India
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- Managed the company **Dougeldyne Astrosystems and Flechtel Constructors** (60 students) to conceptualize the construction of a space settlement orbiting Earth given a Request for Proposal (RFP).
- Ensured meticulous planning, inter-department communication and bold presentation choices
- Spearheaded a 30-minute-long presentation for 300 people, encompassing details on structure, business development, operations, and human factors of the settlement to achieve **Runner-up position**.

SKILLS

- **Python** including libraries *NumPy, SciPy, Pandas* , **R** programming language including libraries *ggplot2* and *Dplyr*, **C, C++, Java**.
- **LaTeX** using *TexMaker*

EXTRACURRICULAR ACTIVITIES

Be Heard-A Public Speaking Competition <i>Hosted by Indo-Australian Association for 9th-12th /college students</i>	Jan 2018 Tamil Nadu, Chennai
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- Delivered multiple speeches to 70-80 people by utilizing fluid body language and captivating dialogue.
- Achieved **6th place overall** in Chennai.

3rd Annual school play; Shangri-La <i>Directed by Nilakantan and written by Harry Maclure</i>	Jan 2019 Tamil Nadu, Chennai
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- Played the main character, adapted to increased responsibilities by being resolute under pressure.

Grade 1 Theory and Practical of Music (Guitar) <i>Awarded by Trinity college London</i>	Aug 2019 Tamil Nadu, Chennai
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- Awarded Distinction in both Theory and Practical, through commitment to daily practice and hard work.